WHAT IS CLAIMED IS:

- 1 1. A character validation method comprising the steps of:
- 2 retrieving a data value from a character stream;
- determining a validity of a character represented by said value in response to a
- 4 member of a data structure corresponding to said value wherein said validity is
- 5 determined in response to a logical combination of status values in said member of said
- 6 data structure.
- 1 2. The method of claim 1 further comprising the step of indexing into said data
- 2 structure using said data value, wherein said member of said data structure corresponding
- 3 to said data value is pointed to in response to said indexing step.
- 1 3. The method of claim 2 wherein said data structure comprises an array.
- 1 4. The method of claim 1 wherein, if the logical combination corresponds to a
- 2 logically "TRUE" value, said data value represents a valid character.
- 1 5. The method of claim 1 further comprising the step of, if each character in said
- 2 stream is valid, applying a predetermined set of syntatic rules to byte patterns comprising
- 3 said character stream.
- 1 6. The method of claim 1 further comprising the step of generating said data
- 2 structure.
- 1 7. The method of claim 5 wherein said character stream comprises characters in
- 2 accordance with a specification for an extensible markup language, and wherein said
- 3 status values are set in accordance with a set of valid characters defined in said
- 4 specification.

- 1 8. The method of claim 7 wherein the extensible markup language comprises XML
- 2 and wherein said syntatic rules include rules in accordance with XML.

- 1 9. A data processing system comprising:
- 2 circuitry operable for retrieving a data value from a character stream;
- determining a validity of a character represented by said value in response to a
- 4 member of a data structure corresponding to said value wherein said validity is
- 5 determined in response to a logical combination of status values in said member of said
- 6 data structure.
- 1 10. The system of claim 9 further comprising circuitry operable for indexing into said
- 2 data structure using said data value, wherein said member of said data structure
- 3 corresponding to said data value is pointed to in response to said indexing step.
- 1 11. The system of claim 10 wherein said data structure comprises an array.
- 1 12. The system of claim 9 wherein, if said logical combination corresponds to a
- 2 logically "TRUE" value, said data value represents a valid character.
- 1 13. The system of claim 9 further comprising circuitry operable for, if each character
- 2 in said stream is valid, applying a predetermined set of syntatic rules to byte patterns
- 3 comprising said character stream.
- 1 14. The system of claim 9 further comprising circuitry operable for generating said
- 2 data structure.
- 1 15. The system of claim 13 wherein said character stream comprises characters in
- 2 accordance with a specification for an extensible markup language, and wherein said
- 3 status values are set in accordance with a set of valid characters defined in said
- 4 specification.
- 1 16. The system of claim 15 wherein the extensible markup language comprises XML
- 2 and wherein said syntatic rules include rules in accordance XML.

- 1 17. A computer program product embodied in a machine-readable storage medium
- 2 including programming for validation, the programming comprising a set of instructions
- 3 for performing the steps of:
- 4 retrieving a data value from a character stream;
- determining a validity of a character represented by said value in response to a
- 6 member of a data structure corresponding to said value wherein said validity is
- determined in response to a logical combination of status values in said member of said
- 8 data structure.
- 1 18. The program product of claim 17 further comprising instructions for performing
- 2 step of indexing into said data structure using said data value, wherein said member of
- 3 said data structure corresponding to said data value is pointed to in response to said
- 4 indexing step.
- 1 19. The program product of claim 18 wherein said data structure comprises an array.
- 1 20. The program product of claim 17 wherein, if the logical combination corresponds
- 2 to a logically "TRUE" value, said data value represents a valid character.
- 1 21. The program product of claim 17 further comprising instructions for performing
- 2 the step of, if each character in said stream is valid, applying a predetermined set of
- 3 syntatic rules to byte patterns comprising said character stream.
- 1 22. The program product of claim 17 further comprising the step of generating said
- 2 data structure.
- 1 23. The program product of claim 21 wherein said character stream comprises
- 2 characters in accordance with a specification for an extensible markup language, and
- 3 wherein said status values are set in accordance with a set of valid characters defined in
- 4 said specification.

- 1 24. The program product of claim 23 wherein the extensible markup language
- 2 comprises XML and wherein said syntatic rules include rules in accordance with XML.

1	25.	A character va	lidation method	comprising the	steps of:
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- 2 retrieving a data value from a character stream;
 - determining a validity of a character represented by said value in response to a member of a data structure corresponding to said value wherein said validity is determined in response to a logical combination of status values in said member of said data structure, wherein said character stream comprises characters in accordance with a specification for an extensible markup language, and wherein said status values are set in accordance with a set of valid characters defined in said specification; and

if each character in said stream is valid, applying a predetermined set of syntatic rules to byte patterns comprising said character stream in accordance with said extensible markup language.

26. The method of claim 25 wherein said character stream comprises a message packaged in accordance with a predetermined information exchange protocol.